



October 26, 2017

Mr. Anthony Krone
Risk Manager
Shelby County Schools
160 South Hollywood – Room 152
Memphis, Tennessee 38112

**RE: Lead in Drinking Water Sampling
Kate Bond Middle School
2737 Kate Bond Road
Memphis, Tennessee
Tioga Project No.: 24816.03**

Dear Mr. Krone,

At the request of Shelby County Schools (the Client), Tioga Environmental Consultants (Tioga) performed sampling of drinking water sources at the above referenced school for laboratory analysis of total lead concentrations. At the request of the Client, sampling was conducted on potable water sources in the kitchen and water fountains throughout the first floor of the school. Sampling was conducted early in the morning, before any potable water sources had been used for the day and prior to the arrival of any students or faculty.

On October 10, 2017, Tioga representative Eric Davis arrived onsite and was escorted through the building by Shelby County Schools risk management personnel. First-draw potable water samples were collected in accordance with the Environmental Protection Agency (EPA) regulations codified in 40 CFR 141.86, and were documented and transferred under chain-of-custody protocol to Waypoint Analytical Laboratories in Memphis, Tennessee for analysis of total lead content.

Results Based on Laboratory Analysis:

Table 1 on the following page summarizes the sampling locations, laboratory analytical results, and EPA action level for lead in drinking water. Sample results with a "<" symbol did not contain lead content above the laboratory detection limit.

Down-to-earth partners. Sky's-the-limit solutions.

Table 1
Summary of Analytical Results
Kate Bond Middle School
October 10, 2017

Sample ID	Sample Location	Total Lead (µg/L)	EPA Action Level (µg/L)
68-1	Cooler in Gym Near Boys' Locker Room	<0.500	15
68-2	Cooler Outside Auditorium - Left	<0.500	
68-3	Kitchen Sink	<0.500	
68-4	Cafeteria Cooler	<0.500	
68-5	Cooler Near Room A152	<0.500	
68-6	Cooler Outside Auditorium - Right	<0.500	
68-7	Cooler Near Room B139	<0.500	

(µg/L) = Micrograms of lead per liter of water (parts per billion)

A review of the laboratory analytical results of the water samples collected revealed that no water samples collected during this sampling event exhibited total lead levels above the EPA action level for drinking water.

Recommendations:

Based upon the laboratory analytical results of the seven potable water samples collected from Kate Bond Middle School, Tioga has found no evidence of elevated lead concentrations above the EPA action level for drinking water, and therefore makes no recommendation for further testing at this site.

Limitations

Potable water sources with elevated lead levels may potentially be present in areas of the property that are not addressed with this report. This investigation only included the potable water sources specifically addressed.

We appreciate the opportunity to provide you with this service. Should you have any questions regarding this report, please contact me at (901) 791-2432.

Sincerely,

TIOGA ENVIRONMENTAL CONSULTANTS, INC.



Margaret F. Strom, QEP, CHMM
President

Enclosure: (1) Laboratory Analytical Report

10/20/2017

Tioga Environmental Consultants
Ms. Maggie Strom
357 N. Main Street
Memphis, TN, 38103

Ref: Analytical Testing
Lab Report Number: 17-285-0209
Client Project Description: Site 68
Project #24816.03

Dear Ms. Maggie Strom:
Waypoint Analytical, Inc. received sample(s) on 10/11/2017 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Andy Parrish
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180-11-6	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	Virginia #00106
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #41	





2790 Whitten Road, Memphis, TN 38133
Main 901.213.2400 ° Fax 901.213.2440
www.waypointanalytical.com

06510

Tioga Environmental Consultants

Ms. Maggie Strom
357 N. Main Street
Memphis , TN 38103

Project Site 68
Information : Project #24816.03

Report Date : 10/20/2017

Report Number : **17-285-0209**

REPORT OF ANALYSIS

Received : 10/11/2017

Lab No : **91059**

Matrix: **Aqueous**

Sample ID : **68-1**

Sampled: **10/10/2017 9:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<0.500	µg/L	0.500	1	10/17/17 15:17	BKN	EPA-200.8

Lab No : **91060**

Matrix: **Aqueous**

Sample ID : **68-2**

Sampled: **10/10/2017 9:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<0.500	µg/L	0.500	1	10/17/17 15:19	BKN	EPA-200.8

Lab No : **91061**

Matrix: **Aqueous**

Sample ID : **68-3**

Sampled: **10/10/2017 9:08**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<0.500	µg/L	0.500	1	10/17/17 15:20	BKN	EPA-200.8

Lab No : **91062**

Matrix: **Aqueous**

Sample ID : **68-4**

Sampled: **10/10/2017 9:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<0.500	µg/L	0.500	1	10/17/17 15:21	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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06510

Tioga Environmental Consultants

Ms. Maggie Strom
357 N. Main Street
Memphis , TN 38103

Project Site 68
Information : Project #24816.03

Report Date : 10/20/2017

Report Number : **17-285-0209**

REPORT OF ANALYSIS

Received : 10/11/2017

Lab No : **91063**

Matrix: **Aqueous**

Sample ID : **68-5**

Sampled: **10/10/2017 9:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<0.500	µg/L	0.500	1	10/17/17 15:26	BKN	EPA-200.8

Lab No : **91064**

Matrix: **Aqueous**

Sample ID : **68-6**

Sampled: **10/10/2017 9:14**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<0.500	µg/L	0.500	1	10/18/17 16:14	BKN	EPA-200.8

Lab No : **91065**

Matrix: **Aqueous**

Sample ID : **68-7**

Sampled: **10/10/2017 9:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<0.500	µg/L	0.500	1	10/18/17 16:16	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Cooler Receipt Form

Customer Number: **06510**

Customer Name: **Tioga Environmental Consultants**

Report Number: **17-285-0209**

Shipping Method

<input type="radio"/> Fed Ex	<input type="radio"/> US Postal	<input type="radio"/> Lab	<input type="radio"/> Other :	<input type="text"/>
<input type="radio"/> UPS	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	Thermometer ID:	<input type="text"/> NA

Shipping container/coolers uncompromised? Yes No

Number of coolers received 1

Custody seals intact on shipping container/coolers? Yes No Not Required

Custody seals intact on sample bottles? Yes No Not Required

Chain of Custody (COC) present? Yes No

COC agrees with sample label(s)? Yes No

COC properly completed Yes No

Samples in proper containers? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test(s)? Yes No

All samples received within holding time? Yes No

Cooler temperature in compliance? Yes No

Cooler/Samples arrived at the laboratory on ice.
 Samples were considered acceptable as cooling process had begun.

Water - Sample containers properly preserved Yes No N/A

Water - VOA vials free of headspace Yes No N/A

Trip Blanks received with VOAs Yes No N/A

Soil VOA method 5035 – compliance criteria met Yes No N/A

High concentration container (48 hr) Low concentration EnCore samplers (48 hr)

High concentration pre-weighed (methanol -14 d) Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included? Yes No

Comments:

For Laboratory Use Only

Client Name/Address Tioga	Client Project Manager/Contact Maggie Stan	Billing Information		For Laboratory Use Only			
Project Description 68	Project/Site Location (City/State) 68	<input type="checkbox"/> RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limit(s) Date Results Needed		<input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client Drop Off Other		Matrix Key WW – Wastewater DW – Drinking Water S – Soil /Solid O – Oil P - Product M - Misc	
Project Number J48/6-03	Project Manager Phone # Waypoint	Project Manager Email mstoen@tiogenv.com	Purchase Order Number 17-285-0209	Purchase Order Number 06510		Site/Facility ID # 10-12-2017	
Project Manager Phone # Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Number of Containers Unless noted, all containers per Table II of 40 CFR Part 136.	(Grab or Composite Matrix (Refer to Key)	Required Analysis / Preservative Tioga Lead		Comments/Notes HCL pH<2 H3PO4 pH<2 Cool <= 6C NA25203	
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